

CLAIMS

What is claimed is:

1. A method for allowing debugging capability in code instrumentation that takes a block of original code to produce a block of instrumented code, comprising the steps of:
 1. providing an instrumentation breakpoint in the block of original code;
 2. generating the block of instrumented code when the instrumentation breakpoint is reached;
 3. running the block of instrumented code until a debugging breakpoint is reached, and
 4. performing debugging functions on the block of instrumented code at the invoked debugging breakpoint.
2. The method of claim 1 wherein the step of providing comprises the step of replacing a first instruction in the block of original code by the instrumentation breakpoint.
3. The method of claim 2 wherein the first instruction comprises one or more instructions.
4. The method of claim 2 wherein the step of generating comprises the step of restoring the first instruction to the block of instrumented code.

*Sub
JAY*

1 5. The method of claim 1 wherein the step of providing comprises the step of
2 providing a debugging breakpoint in either the block of original code or the block
3 of instrumented code.

1 6. A computer-readable medium embodying instructions that cause a computer to
2 perform a method for allowing debugging capability in code instrumentation that
3 takes a block of original code to produce a block of instrumented code, the method
4 comprising the steps of:

5 providing an instrumentation breakpoint in the block of original code;

6 generating the block of instrumented code when the instrumentation

7 breakpoint is reached;

8 running the block of instrumented code until a debugging breakpoint is

9 reached, and

10 performing debugging functions on the block of instrumented code at the

11 invoked debugging breakpoint.

1 7. The computer-readable medium of claim 6 wherein the step of providing
2 comprises the step of replacing a first instruction in the block of original code by
3 the instrumentation breakpoint.

1 8. The computer-readable medium of claim 7 wherein the first instruction comprises
2 one or more instructions.

Sub
Sub 1 9.

2

3

The computer-readable medium of claim 7 wherein the step of generating comprises the step of restoring the first instruction to the block of instrumented code.

1 10.

2

3

The computer-readable medium of claim 6 wherein the step of providing comprises the step of providing a debugging breakpoint in either the block of original code or the block of instrumented code.

add
an